by Short Spears and Stanley Costerfelder Terry Thorne scored on a passed ball with two out in the bottom of the ninth to send the Caltech varsity baseball team a 9–8 victory over Occidental here Tuesday. Caltech second baseman Bob Pfeva singled led to drive in the tying run earlier in the inning, with Phil Gschwend sliding under to throw from right field to make the score 8–8.

Senior John Ellis pitched the last three innings of the game, allowing just one run, and was credited with Caltech’s first league victory this year against six losses. Phil Gschwend, Caltech senior, pitched the first six innings before he moved to left field. Gschwend allowed seven runs.

Early Lead
Caltech jumped to a 4–1 lead after the first inning. The Beavers tallied four times without a hit in the first frame, getting their runs on walks and wild pitches. The lead increased to 5–1, in the second but Oxy then scored three times in the third to bring the score to 5–4. Doug Schladweiler doubled in Jerry Feely and Rich Short for Tech in the bottom of the fourth to bring Gschwend a 7–4 lead to work with. But Oxy scored twice in the fifth, once in the sixth, and once in the seventh to take an 8–7 lead.

The Tech batters came up with no runs on only two hits until the last of the ninth. The first two batters struck out, and it looked bad for the home team. Then Gschwend watched a 3–2 pitch sail outside for ball four, and Tom Howell singled sharply through the hole into left. Bob Pfeva drove the ball into right field to bring home Gschwend, and Howell moved to third. The count on John Dilles was one ball and two strikes when the same ball bounced off the tip of the

Continued on Page Four

Continued on Page Seven
Close It Down

Negotiations with the City of Pasadena by Caltech officials for closing portions of San Pasqual Street have been under way for almost a year. The Tech overwhelmingly endorses this proposal.

The foremost reason is pedestrian traffic. During the past ten years, the number of campus buildings north of San Pasqual has grown from six to 17. Traffic engineers estimate that there were two million pedestrian crossings of San Pasqual last year. The addition of the undergraduate chemistry laboratory and (later this year) the behavioral biology building can only raise this figure.

With so many crossings, one can only wonder how Tech has escaped without having a serious accident, considering many drivers' disregard for the speed limit in the area. Last Friday, we were lucky. Fran Wetter, stepping into the crosswalk at the Chester intersection, was hit by a yellow cab that was clearly exceeding the speed limit and thrown several feet. Fortunately, she landed on her feet and was uninjured, except for hip bruises and a shaking-up. There was no obstruction of vision in the incident.

There are other reasons for asking for closure: campus unification, beautification, and so on, but the basic truth is that San Pasqual is dangerous! Last year, a group of Techers painted a crosswalk across San Pasqual in front of the newly-dedicated computing center, as an indication of their concern over the increasing traffic there. If a serious accident ever occurs on San Pasqual, we hesitate to guess what course Techers might take.

On April 26, an open hearing will be held in City Hall on the San Pasqual question. We think that all Techers who face this daily hazard should attend. Unless direct, positive action is taken on this proposal, we may not be so lucky next time.

Close down San Pasqual!

—Gavin D. Claypool

Eric H. Eichorn

Dennis L. Mallonee

Be Kind To Pirates

For the second year in a row, a group of interested students have joined together to produce a musical. Once again the success of this venture rides on the support of the Caltech community.

The road to completion has been rocky. After two student directors bowed out, the musical found harbor in suitable singers, musicians, and technical help to devote to the show is almost beyond comprehension. And yet, the work by all involved hinges on Thursday,

continued on page three

Jobs Is On The Way, Folks

by Gavin Claypool

Summer jobs as Tour Assistants for tours to the Hawaiian Islands and Grand Canyon are being offered by Odyssey Enterprises. The position consists of performing functions in the areas of administration, planning, passenger assistance, and leadership.

To qualify for employment, an applicant must be at least 16 years of age by July 30, 1973, in good health, and have good intelligence, a pleasant personality, and parental permission (if under 18 years of age). Hair can be any length. Pay is $18.50 per hour (average length 8 days) plus free food, lodging, and jet and travel fare.

If two or more students wish to spend the summer working together, Odyssey Enterprises will do their best to schedule this when informed. It is not necessary to work the entire summer; it is perfectly all right to work only part of it. When writing to request an employment application, please include a self-addressed, stamped envelope for speedy processing. Write to: Summer Jobs, Odyssey Enterprises, Box 941, (Catalina), California 95012. Odyssey Enterprises is an equal opportunity employer.

FRANKLY SPEAKING

by Phil Mauser

"Then we're agreed—the experiment was a success. Now what are you going to do with a 2,316 pound radish?"

WELCOME HOME SOLDIER BOYS

THE ASCIT OF MASSEY

Phil Mauser

Last Monday's BOD meeting saw the minutes approved and... well, what do you want from an hour meeting? The Second Annual Memorial Rik Smoody Kite Flying Contest will be held some time this term, at the whim of the secretary. Kroot is to provide beer, cokes, and whatever else. (The kites will also be provided although participants should feel more than free to make their own.)

Nominations for class offices open today. They will be open until Tuesday, May 1, with election the following Friday. If you think you can swing the awesome responsibilities connected with being a class officer, sign up on the official class officer sign up list that will be on Florio's door on the first floor of Winnett.

Garbage In

It was suggested by Johnson that there be a Weekly Saturday Night at the Poker Game to be held in the ASCIT Office, potato chips to be provided, and beer obtainable for everyone. ("There are two qualities of beer—remember that!”) About this Marian and Massy expressed some reservations about the idea (those restrained?), but it was decided that it might be tried once or twice. Anyone wishing to play should show up Saturday at 11 (in the BOD office??), and the person to call for bail is your R.A., not Dr. Bonner.

Garbage Out

Meetings will come equipped with Agendas (Agendae?) in the future. If you have anything you want brought up at a BOD meeting, please write in some way to Massy (Roddock) about it prior to 5:00 p.m. the Friday before the meeting. It was agreed to see how well this works out, but it is hoped that it would speed up meetings somewhat, by perhaps eliminating some of the unnecessary drivel that.

The next BOD meeting will be held Tuesday (no, not Monday) in Winnett at 4:00 p.m. It will be some sort of planning meeting as well—which among other things, we will be planning the boat that will go to Catalina, and whether we’re really having a corporation meeting next month. Come and find out.

THE CALIFORNIA TECH

Thursday, April 19, 1973

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WELCOME HOME SOLDIER BOYS
Friday, and Saturday nights.

Last year, I.M.S. Pinafore was presented to two packed houses. The Pirates of Penzance will come alive in three performances this weekend, hopefully to the same-sized houses. The Pirates of Penzance! The kids will love it! (Let's get this over with...)

The California Tech, in an effort to become more relevant to student concerns and interests, hereby announces a new news/commentary feature. Any member of the Caltech community who wishes to have questions about Caltech answered, by particular people or by whoever is appropriate, is invited to send his question to the Tech, at mailing code 105-51, and we will attempt to obtain written responses to these questions, for publication in the Tech, as space permits.

In the immediate future we hope to print commentaries on the size of the undergraduate student body and the optimal number of students to be placed in on-campus housing.

The writings on the door proved to be difficult to remove, and are still on exhibit on the door. It is, by the way, reinstalled on the roof, but with the regular lock it had previously, rather than the Keso. Apparently the Safety Office has learned the error of its ways.
A few years ago, a few very daring record stores began selling something unusual. It was a record album, yes, but with no fancy cover, no record company trademark, and oddest of all, no named feature artist. It just said “Great White Wonder” and listed a bunch of songs. There were rumors that it was a Bob Dylan album, recorded without Columbia’s permission, and being “bootlegged.” Soon more “bootlegs” followed, and underground albums became a hit. Unfortunately, from some points of view, too big a hit. Record companies got the Feds to crack down on the manufacturers of these albums and they became scarce. They are still around, though in a few stores.

The reason for this column is that, for obvious reasons, very few of the bootlegs were ever reviewed in newspapers. Therefore, unless you heard a friend’s copy, you were buying a pig in a poke, and sometimes worse. Some bootlegs were of studio quality, and others terrible. Even the location of the recording (concert or studio) was of little help since, there do exist both good live recordings and lousy studio ones.

Some of you remember a tune from 1963, Mar’i/sh. The artist who had that hit is at the Ice House this week, Tim Morgan leads the audience through a sort of nostalgic tour backwards through rock and roll as he challenges them to remember whose hit it was. He starts with tunes like “Starin’ on the Dock of the Bay,” “Let the Good Times Roll,” and ends up with a good version of some Elvis, complete with pelvis.

The two lead-in acts are quite rapidley improved with the advent of a song by Candee, “I Fly By A King,” and they had a good sound for the rest of their act. Denny Johnston is the second lead-in. Recently there have been a lot of commercials using famous movie stars to sell a product. Johnston uses some excellent imitations to put stars like John Wayne selling products like kitchen appliances. He even goes so far with his impersonations as to recast a famous film of the ’30’s, which he retitles “Reefer Roundness.”

The show this week is good, especially for those of you that wish to be reminded of the music of the mid-60’s. It runs until April 22.
Pirates, Parkening Announced

by Marc Donner

Happy Lexington and Concord Day! This day in 1775 the “first” battle of the Revolutionary War was fought at Lexington and Concord. In the spirit of the holiday the ASCIT musical coterie (a) will open tonight in Ramo Auditorium. Pie Rates of Penn’s Aunts will run for three nights and, according to reliable sources, should be worthwhile. Tickets are $3 general admission, $2 non-Tech students, and $1 for Techers.

On Monday next (April 23) Nicholas George, professor of EE, will speak on “Holograms and Lasers.” Dr. George will discuss and demonstrate his trained three-D pictures and will describe a new technique for engineering the speckling characteristic of all holograms. He will discuss other benefits of laser optical systems, including image enhancement and “robot vision.”

Parkening Performs

Today will be the last of the Art of the Guitar series featuring a recital by Christopher Parkening, often considered the leading classical guitarist in America. Parkening, a native Californian, is currently the head of USC’s guitar department.

He began to study the guitar at the age of 11 and his first teachers were the famous Celeste and Peppe Korony. In 1963 he made his formal concert debut at the age of 12 and was engaged by the L.A. Philharmonic and the Pasadena Symphony. In 1964 he was accepted as a student by Andres Segovia at UC Berkeley and in 1966 he began studies at USC. In 1968 he came his first national tour and has since appeared with many great orchestras and made several successful recital tours.

Parkening will perform works by Dowland, Bach, Scarlatti, Ravel, Debussy, and Villa Lobos.

Caltech Auditions

Youth chamber groups from as far away as New York, Texas, and Indiana will be in Pasadena during the weekend of April 27, 28, and 29 to compete in the 27th annual Caltech Chamber Music Auditions. The public is invited to attend the auditions, which will be held in Ramo Auditorium.

The Auditions begin on Friday, April 27 at 4:00 p.m. with the three ensembles accepted for the Junior Division. No member is over the age of 17. The competition will cover a minimum of 10% discount to all Caltech students and faculty.
**Help Wanted**

Child-oriented, responsible housewife/worker, 6 yr. old from Pasadena school 3:30 until 6:30 p.m. Mon.-Fri.; Prefer housewife/worker/child. Student with good refs OK. 9–6 p.m. 624-1451 ext. 222; after 6 p.m. 441-2186.

**Travel**

Europe-Orient Flights/Charters: reg/youth/SOFA; Intl. ID cards; Ralph’s. EXITS/AIS, 9056 Santa Monica, L.A. 90069; 274-8742.

Third year of CHARTER FLIGHTS to Europe for Caltech/JPL. Contact Dr. Mandel, x 1078 or 476–4543.

**Charters Year Round**

No more club fees! 50 Depart- tures, also NYC, Japan & Aus- tralia. Youth Fares, too. Since 1959: ISTC, 204 Dabney, Pasadena, by a margin of 10,582 from Pasadena school 3:30 until 6:30 p.m. Mon.–Fri.; Prefer housewife/worker/child. Student with good refs OK. 9–6 p.m. 624–1451 ext. 222; after 6 p.m. 441–2186.

Europe-Israel. Studens Flights. Inexpensive student camping tours throughout Europe, Russia, and Mediterranean. Application a agent for inter-European student charter flights, including Middle East and Far East. Students set up travel, Euro- pean used car purchase system. Contact: ISCA, 11687 San Vin- cente Blvd. No. 4, L.A., CA, 90049. Tel: (213) 826–5669, 274–0955. Cycles: Bi- And Motor-

**The California Tech**

**Oliver Defeated in Director Bid**

by Etsion Schroedel

Caltch professor Robert W. Oliver lost his bid to return to the Pasadena Board of City Directors this week. A relatively large voter turnout at the polls re-elected incumbent Don Yokatia, by a margin of 10,582 to 6,521.

Oliver, Caltch associate pro-fessor of economics and long active in Pasadena civic affairs, had served on the Board of Direc-tors from 1965 to 1969. In the district primary this past March, Oliver gained enough votes to enter the city-wide run-off against Yokatia.

In the same run-off, Henry Wilfong was elected to the Board as the representative from District Three. Wilfong, a black, gathered 9,220 votes to 7,333 for Robert Annamg. The above totals are unofficial.

The first Bi j-Dabney House White Elephant Egg Hunt is com-ing! The celebration is planned to commence at 8 p.m. tomorrow in Dabney Courtyard. Free beer, soft drinks, chips, and other ran-dom condiments will be available, and the extraordinary Dabney House bar will be open. Enter-tainment will be provided by the Dabney House Band. A tentative special appearance of Dr. Dan Mc-Mahon is anticipated. Come see the interesting Easter Elephants!

**Another News Brief**

**MAKE YOUR OWN PEACE**

The signing of a ceasefire does not end our work for peace in Vietnam. You can take positive action, within the realm of your own conscience, to alleviate suffering our country has caused and to prevent its recurrence.

The American Friends Service Committee is substantially expanding its strong, well-established programs of peace ac- tion and aid to North and South Vietnam. This is action of extraordinary scope for this Quaker organization which has worked impartially for peace since World War I. AFSC aid in the Vietnam War began in 1965 with medical assistance to civilians. The Service Committee has supplied penicillin for war wounds in NLF controlled areas and delivered four installments of surgical supplies to North Vietnam. In South Vietnam, the AFSC has provided medical care for indigent patients and conducted a widely recognized prosthetics and rehabilitation program for war injured civilians.

In the area of peace action, the American Friends Service Committee has been calling for peace in South Vietnam since 1954. Currently, the AFSC continues to press for release of more than 200,000 civilian political prisoners in Thieu’s jails. It is challenging new and disguised forms of intervention such as replacement of soldiers with 10,000 U.S. civilian advisors. It is also supporting a campaign to stop further development and production of anti-personnel weapons.
### REGISTRATION COURSE CHANGES

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<th>After Change</th>
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<tr>
<td>Add</td>
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<tr>
<td>Drop</td>
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<tr>
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Fill in the appropriate information with an action code. Have this card signed by your advisor and by those instructors affected by the changes.

### Registration

Continued from Page One

Elimination of separate cards for adding classes, dropping classes, changing sections, altering units, and selecting pass-fail grades. The white, blue, green, yellow, and buff cards will give way to just one card, which has spaces to change as many as 14 classes at once, and needs be signed only once by one's advisor. Theoretically, the one card would be adequate for changing one's entire program.

More Feedback

After course change cards are processed, a new list of courses will be printed and sent to the student. Dr. Schaefer expressed hope that this would cut down on misunderstandings. (But I thought I dropped that course?)

Also, he hopes to distribute a list of courses and grading scheme for each student about midterms.

Dr. Schaefer hopes the system will reduce the number of errors in the Institute's record keeping. Frequently telling students what is in the system should bring rapid feedback on any mistakes, which would be corrected in regular updates.

Security

The system keeps the data base either on disk or tape. Probably, the data base will be stored on tape most of the time, and put on disk only during the first and last weeks of a term, when it would be changed most by course changes or incoming grade reports. While on tape, the data would presumably be absolutely inviolate.

ASAP provides several levels of security: off when the data is on disk and hypothetically accessible to anyone. Certain pieces of information, such as financial aid data, can be specified as "security" data, and are stored on disk in scrambled form, presumably indecipherable to someone who dumped the disk file.

### Shakedown Cruise

The system will go into effect this summer, and undergo a year's shakedown. Dr. Schaefer said that he expects some difficulties, but hopes that at worst, the system will provide the same service as is now available. After a year, the whole system will be reviewed, and changes made.

Dr. Schaefer said that although the system will produce quarterly grade reports, transcripts will not be produced automatically at least during the first year. However, he did indicate that the record keeping system could be used for many functions now done by hand, such as producing student directories, and doing statistical work for planning course and curriculum changes.

### Movie Showing

Has Been Cancelled

The movie The Clones, which was to be screened for Techers this Saturday, has been cancelled. Refunds will not be available, since the movie was to have been shown free of charge. Better luck next time.

Equinox Featured at L.A. International

Equinox, this weekend's Star Trek convention, starts tomorrow at 9 a.m. sharp. Single-day fee is $5.00. The entire weekend costs $10. The convention is being held at the L.A. International Hotel, a reasonable distance approximation to LAX. For more information, see the article in last week's Tech.

Equinox, Pirates, Midterms, What Next?

Tetem, that's what. Or, more specifically, another Tetem News Brief. This is the second week of our sexennial subscription drive. Contributions of that nature can be sent to Clayton Gropp (Ricketts). Poetry, short stories, art work, humor, photographs, limericks, and doggerel ("You're really trying for an issue, aren't you?" "Oh, shut up") can be sent to Philip Massey (Ruddock). Geir Lothen (o/c Dubny), or Bob Coleman (Ruddock). No cash or charge.

African Observer

To Visit Next Week

Dr. Victor Dubois, who covers West Africa for the A.U.S.F., will be on campus next week. On Monday, Dr. Dubois will discuss "Will the Ivory Coast's Ecological Boom End?" in the Africana Library at 1 p.m.

On Tuesday he will speak on "Zaire, Burundi, Rwanda: Divers Roads from Belgium Colonialism," at noon in the Africana Library. On Thursday, he will present "Environment and Governments" in room 127 Baxter at 4 p.m.

ASCIT Saturday

Poker Game

There will be a poker game this Saturday night at 11:00 p.m. in the ASCIT office. Students and faculty are invited. Beer will be available.

Nobel Editions

Still Available

The Tech still has copies of the Debrulcek and Gel'mann Nobel Prize editions for interested people. The photoductor is finally gone, but the clearance continues. Further details next week.

### Jazz Quartet

Plays Ice House

A jazz quartet composed of four local musicians, will play for one night only at the Ice House on Monday, April 23. They will present two sets, at 8:30 and 10:00 p.m. The group plays a blend of straight and rock-flavored jazz. They have performed earlier in room concerts at Caltech and P.C.C.

### Engineering Profs Honored for Research

Two Caltech faculty members, Dr. Norman Brooks, professor of environmental science and civil engineering, and Dr. Donald E. Hudson, professor of mechanical engineering and applied mechanics, have been elected to the National Academy of Engineering in recognition of their outstanding research.

Brooks, who is also Caltech's academic officer for environmental engineering science, has been active in research on hydraulics problems related to water quality management, fluid turbulence and diffusion, and density stratified flows. He has been a special consultant for more than 30 different government agencies and consulting firms, mostly on design problems of overfalls for sewage and cooling water discharges.

Currently he is involved in the use of laboratory hydraulic models of large thermal overfalls to find the best ways for returning water to the ocean that has been removed the heat from power plants, without adversely affecting the marine environment.

Hudson, a pioneer in the field of earthquake engineering, has a long record of service to federal and state agencies. He helped develop instruments, now widely used, that record ground motions during earth shocks. The instruments provide information vital in designing quake-resistant buildings, bridges and dams.

The National Academy of Engineering was established in 1964. Brooks and Hudson are among 70 newly elected members, bringing the total membership to 429.

### Interhouse Bridge

Monday, Dr. Deboist will discuss "Will the Ivory Coast's Ecological Boom End?" in the Africana Library at 1 p.m.

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### BI-KINI HOUSE

Custom-Made Bikinis

Sizes 3-18

3216 N. San Gabriel Blvd.
Rosenhead
200-9941

Make the most of it!
Page Eight

Pomona Wins
Beavers Prepare For League Meet

WITH the SCIAC Championships only three weeks away, the Caltech track team began to round into peak condition with its meet against Pomona last Friday. While losing 97-47, the Beavers generally competed well in their favorite events, which contributed to the lopsided loss. But also put the team in good shape to win its two remaining dual meets.

At Kleinsasser ran another solo 880 and, running against the clock, he recorded the best mark of the year in the conference and the second best in the NAIA District III with a 1:53.1. Kleinsasser ran an almost even race, recording the first lap in 54.9 and the second in 58.3. With the proper competition and good weather the star middle-distance runner was within the 1:50 mark this year. His time also places him fifth in the NAIA National 800 time all year. Kleinsasser almost tried the three-mile but dropped out after 11 miles due to a cramp.

Fan Clubs & Cheerleaders

Haywood Robinson, complete with fan club, continued his winning ways with victories in the 100 and 220-yard dashes. Robinson won the 100 in 10.1 and came back to win the 220 in 22.5. He also competed on the 440-yard relay team. It was a windy and cold afternoon which was not conducive to fast times. Considering all factors, it was another outstanding day for the Beaver sprinter.

Groat, with special encouragement from the Caltech cheerleaders, ran a personal best in the 440 intermediate hurdles with a mark of 55.7. Hoit ran a strong second half to edge Charles Almquist, who recorded a time of 56.0. Hoit also competed on the 440 and mile relay teams. It was a windy and cold afternoon which was not conducive to fast times. Considering all factors, it was another outstanding day for the Beaver sprinter.

Sprints Menu

The Caltech Glee Club presents
A SPRING JUBILEE
with songs and pictures of last summer's European Tour
May 11, 12 Beckman Auditorium 8:00 p.m.

Send to Caltech Ticket Office, 332-92 Caltech

No Type 0
- General Admission $2
- Student $1
- ASCC member $0
City Zip

GET YOUR TICKETS TODAY